

FORM PTO-1449				ATTY. DOCKET NO. 77/90-46762.3		SERIAL NO. 08/854,686	
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANT ROSS ET AL.			
				FILING DATE May 12, 1997		GROUP ART UNIT 3752	

*Examiner's Initials	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE, IF APPROPRIATE
<i>AK</i> <div style="border-left: 1px solid black; height: 100px; margin: 0 auto; width: 20px;"></div>	AA	2,779,623	January 29, 1957	B.J. Eisenkraft		09-10-54
	AB	3,558,052	January 26, 1971	John P. Dunn		10-31-68
	AC	3,738,574	June 12, 1973	M. Guntersdorfer et al.		06-30-71
	AG	3,950,760	April 13, 1976	Rauch et al.		12-04-74
	AI	3,983,740	October 5, 1976	F. Danel		02-07-75
	AJ	4,005,435	January 25, 1977	Lundquist et al.		05-15-75
	AA	4,119,096	October 10, 1978	W. Drews		08-24-76
	AB	4,159,803	July 3, 1979	Cameto et al.		03-31-77
	AC	4,240,081	December 16, 1980	E. B. Devit		10-13-78
	AE	4,268,460	May 19, 1981	Boiarski et al.		03-05-80
<div style="border-left: 1px solid black; height: 100px; margin: 0 auto; width: 20px;"></div>	AG	4,300,546	November 17, 1981	H.W. Kruber		11-14-79
	AH	4,301,093	November 17, 1981	W. Eck		07-25-80
	AI	4,334,531	June 15, 1982	Reichl et al.		06-18-80
	AJ	4,336,544	June 22, 1982	Donald et al.		08-18-80
	AA	4,338,576	July 6, 1982	Takahashi et al.		07-03-79
	AC	4,389,071	June 21, 1983	Johnson, Jr. et al.		12-12-80
	AD	4,408,719	October 11, 1983	A. J. Last		06-17-81
	AG	4,474,251	October 2, 1984	Johnson, Jr.		11-25-81
<i>AK</i>	AH	4,474,326	October 2, 1984	M. Takahashi		11-08-82
	AI	4,475,113	October 2, 1984	Lee et al.		03-04-83

EXAMINER <i>Anders Rasmussen</i>	DATE CONSIDERED <i>9/29/01</i>
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AK	AC	4,539,575	September 3, 1985	K. Nilsson			05-23-84
	AD	4,544,933	October 1, 1985	J. Heinzl			08-31-84
	AE	4,546,361	October 8, 1985	Brescia et al.			10-26-83
	AG	4,591,883	May 27, 1986	T. Isayama			09-19-85
	AH	4,593,291	June 3, 1986	S. D. Howkins			04-16-84
		4,620,201	October 28, 1986	Heinzl et al.			01-03-86
		4,628,890	December 16, 1986	W. Freeman			08-31-84
		4,632,311	December 30, 1986	Nakane et al.			12-20-83
		4,659,014	April 21, 1987	Soth et al.			09-05-85
		4,681,264	July 21, 1987	V. E. Johnson, Jr.			07-27-84
		4,753,579	June 28, 1988	D. Murphy			07-10-86
		4,793,339	December 27, 1988	Matsumoto et al.			02-04-88
		4,796,807	January 10, 1989	Bendig et al.			03-11-88
		4,799,622	January 24, 1989	Ishikawa et al.			07-30-87
		4,850,534	July 25, 1989	Takahashi et al.			04-19-88
		4,865,006	September 12, 1989	Nogi et al.			03-17-88
		4,871,489	October 3, 1989	T. D. Ketcham			04-19-88
		4,887,989	December 19, 1989	N. C. Kerecman			12-28-87
		4,976,259	December 11, 1990	Higson et al.			11-02-88
		5,063,396	November 5, 1991	Shiokawa et al.			03-13-90
		5,063,922	November 12, 1991	T. Häkkinen			08-07-89
		5,076,266	December 31, 1991	E. Babaev			05-16-90
		5,139,016	August 18, 1992	J. Waser			12-29-89
		5,152,456	October 6, 1992	Ross et al.			12-03-90
		5,164,740	November 17, 1992	Y. Ivri			04-24-91
		5,198,157	March 30, 1993	L. Bechet			08-20-91
		5,297,734	March 29, 1994	K. Toda			10-11-91
		5,299,739	April 5, 1994	Takahashi et al.			05-26-92
AK		5,487,378	January 30, 1996	Robertson et al.			10-04-93

EXAMINER <i>Andis Kashner</i>	DATE CONSIDERED 9/29/95
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	APPLICANT ROSS ET AL.	
	FILING DATE May 12, 1997	GROUP ART UNIT 3752

FOREIGN PATENT DOCUMENTS

*Examiner's Initials		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
AK	AK	61-215059	September 24, 1986	Japan			X	
	AL	WO 89/06147	July 13, 1989	PCT				
	AN	WO 93/01404	January 21, 1993	PCT				
	AO	2 240 494 A	August 7, 1991	UK				
		2 073 616 A	October 21, 1981	UK				
		2 101 500 A	January 19, 1983	UK				
		973,458	October 28, 1964	UK				
		477885	October 31, 1969	Switzerland				X
AK		0 178 925 A2	April 23, 1986	European				

OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)		
AK	AR	Berglund et al., <i>Generation of Monodisperse Aerosol Standards</i> , Environmental Science Technology, Vol. 7, Number 2, pp. 147-153 (Feb. 1973).
AK		TSI catalogue entitled <i>Vibrating Orifice Aerosol Generator</i> .
AK		W. R. Wehl, <i>Ink-Jet-Printing: The Presentation of the Art</i> .

EXAMINER <i>Anders Koshin</i>	DATE CONSIDERED 9/29/97
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*Examiner's Initials	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE, IF APPROPRIATE
AK	AD	3,790,079	February 5, 1974	Berglund et al.		06-05-72
	AE	3,804,329	April 16, 1974	Martner		07-27-73
	AF	3,812,854	May 28, 1974	Michaels et al.		10-20-72
	AH	3,958,249	May 18, 1976	DeMaine et al.		12-18-74
	AD	4,261,512	April 14, 1981	B. Zierenberg		02-20-80
	AF	4,294,407	October 13, 1981	Riechl et al.		12-17-79
	AB	4,368,476	January 11, 1983	Uehara et al.		12-03-80
	AE	4,431,136	February 14, 1984	Janner et al.		03-12-81
	AF	4,465,234	August 14, 1984	Maehara et al.		10-05-81
	AJ	4,479,609	October 30, 1984	Maeda et al.		09-10-82
	AA	4,530,464	July 23, 1985	Yamamoto et al.		07-11-83
	AB	4,533,082	August 6, 1985	Maehara et al.		10-14-82
	AF	4,550,325	October 29, 1985	M. Viola		12-26-84
		4,605,167	August 12, 1986	N. Maehara		01-17-83
		4,702,418	October 27, 1987	Carter et al.		09-09-85
		4,790,479	December 13, 1988	Matsumoto et al.		02-08-88
	AA	4,828,886	May 9, 1989	H. Hieber		11-04-87
	AB	4,888,516	December 19, 1989	Daeges et al.		07-21-88
AK	AF	5,021,701	June 4, 1991	Takahashi et al.		10-13-89

EXAMINER <i>Anders Kishner</i>	DATE CONSIDERED 9/29/91
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	APPLICANT ROSS ET AL.	
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FOREIGN PATENT DOCUMENTS

*Examiner's Initials		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
AK	AK	1,454,597	01/76	Great Britain				
	AL	2,177,623	01/87	Great Britain				
	AM	0 134 847 A	1985	European				
		58-62,411	04/83	Japanese				
		WO 92/11050	July 9, 1992	PCT				
		0 480 615 A	April 15 1992	European				
AK		0 049 636 A1	April 14, 1982	European				

OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)		
AK	AQ	T. Allen, Particle Size Measurement, 3rd Edition 1981, pp. 167 and 169.
	AR	Stork Veco, <i>The Precision Metal Masters</i> .
		Stork Veco, <i>Electroforming</i> .
		N. Maehara et al., <i>Influence of the Vibrating System of a Multipinhole-Plate Ultrasonic Nebulizer on Its Performance</i> , Sci. Instrum., Vol. 57, Number 11, pp. 2870-2876 (November 1986).
AK		S.C. Yao, <i>Development of a Controlled Spray Generator</i> , Rev. Sci. Instrum., Vol. 58, Number 7, pp. 1291-1296 (July 1987).

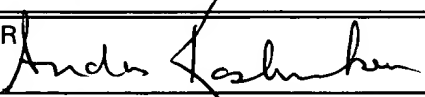
EXAMINER <i>Anders Keshub</i>	DATE CONSIDERED 9/29/02
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	APPLICANT ROSS ET AL.	
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FOREIGN PATENT DOCUMENTS

*Examiner's Initials		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
AK	AK	2-135,169	05/90	Japanese				
	AL	58-139,757	08/83	Japanese				
	AM	2-189,161	07/90	Japanese				
AK	AN	57-23,852	02/82	Japanese				
	AO							
	AP							

OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)		
AK	AR	S. Ueha et al., <i>Mechanism of Ultrasonic Atomization using a Multi-Pinhole Plate</i> , J. Acoust. Soc. Jpn. (E) 6,1:21 (1985)
		N. Maehara et al., <i>Optimum Design Procedure for Multi Pinhole-Plate Ultrasonic Atomizer</i> , Japanese J. of Applied Physics 26:215 (1987)
		H. Hikayuma et al., <i>Ultrasonic Atomizer with Pump Function</i> , Tech. Rpt. IEICE Japan US88-74:25 (1988)
		J. Acoustical Soc. Japan 44:2:116 (1988)
		J. Acoustical Soc. Japan 44:6:425 (1988)
		Gaiser Tool Company Catalog
AC		T. Nogi et al., <i>Mixture Formation of Fuel Injection System in Gasoline Engine</i> , Nippon Kikai Gakkai Zenkoka Taikai Koenkai Koen Ronbunsha 69:660 (p.991)

EXAMINER 	DATE CONSIDERED 9/29/00
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 77/90-46762.3	SERIAL NO. 08/854,686
	APPLICANT ROSS ET AL. #5	
	FILING DATE May 12, 1997	GROUP ART UNIT 3752

*Examiner's Initials	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE, IF APPROPRIATE
<i>JK</i>	3,970,250	July 20, 1976	Drews			09-24-75
	4,312,009	January 19, 19822	Lange			02-05-80
	4,450,375	May 22, 1984	Siegal			11-12-82
	4,542,389	September 17, 1985	Allen			11-24-85
	4,570,630	February 18, 1986	Elliott et al.			06-18-84
	4,589,000	May 13, 1986	Koto et al.			08-12-85
	4,617,581	October 14, 1986	Koto et al.			08-12-85
	4,620,202	October 28, 1986	Koto et al.			08-12-85
	4,746,466	May 24, 1988	Takahashi			11-20-86
	4,806,955	February 21, 1989	Koto et al.			03-11-88
	4,877,989	October 31, 1989	Drews et al.			01-12-89
	5,072,240	December 10, 1991	Miyazawa et al.			12-06-89
	5,177,504	January 5, 1993	Ishii et al.			07-03-90
<i>JK</i>	5,586,550	December 24, 1996	Ivri et al.			08-31-95

FOREIGN PATENT DOCUMENTS

*Examiner's Initials	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
<i>JK</i>	0 432 992 A1	June 19, 1991	European				

<i>Anders Jespersen</i>	DATE CONSIDERED 9/29/01
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FORM PTO-1449

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77/46762.3

SERIAL NO.
08/854,686

APPLICANT: Ross, et al.

FILING DATE
May 12, 1997

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3752

U.S. PATENT DOCUMENTS

*Examiner's Initials	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE, IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					

FOREIGN PATENT DOCUMENTS

*Examiner's Initials	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO
	AH						
	AI						
	AJ						

OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)

AL	AK	F. Moren et al., "AEROSOLS IN MEDICINE PRINCIPLES, DIAGNOSIS AND THERAPY", Elsevier Science Publisher B.V., Amsterdam, The Netherlands, 1985, page 70-72.
	AL	
	AM	
	AN	
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	AQ	
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	AU	

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